

FIG. 1a

SERVICE PROVIDER

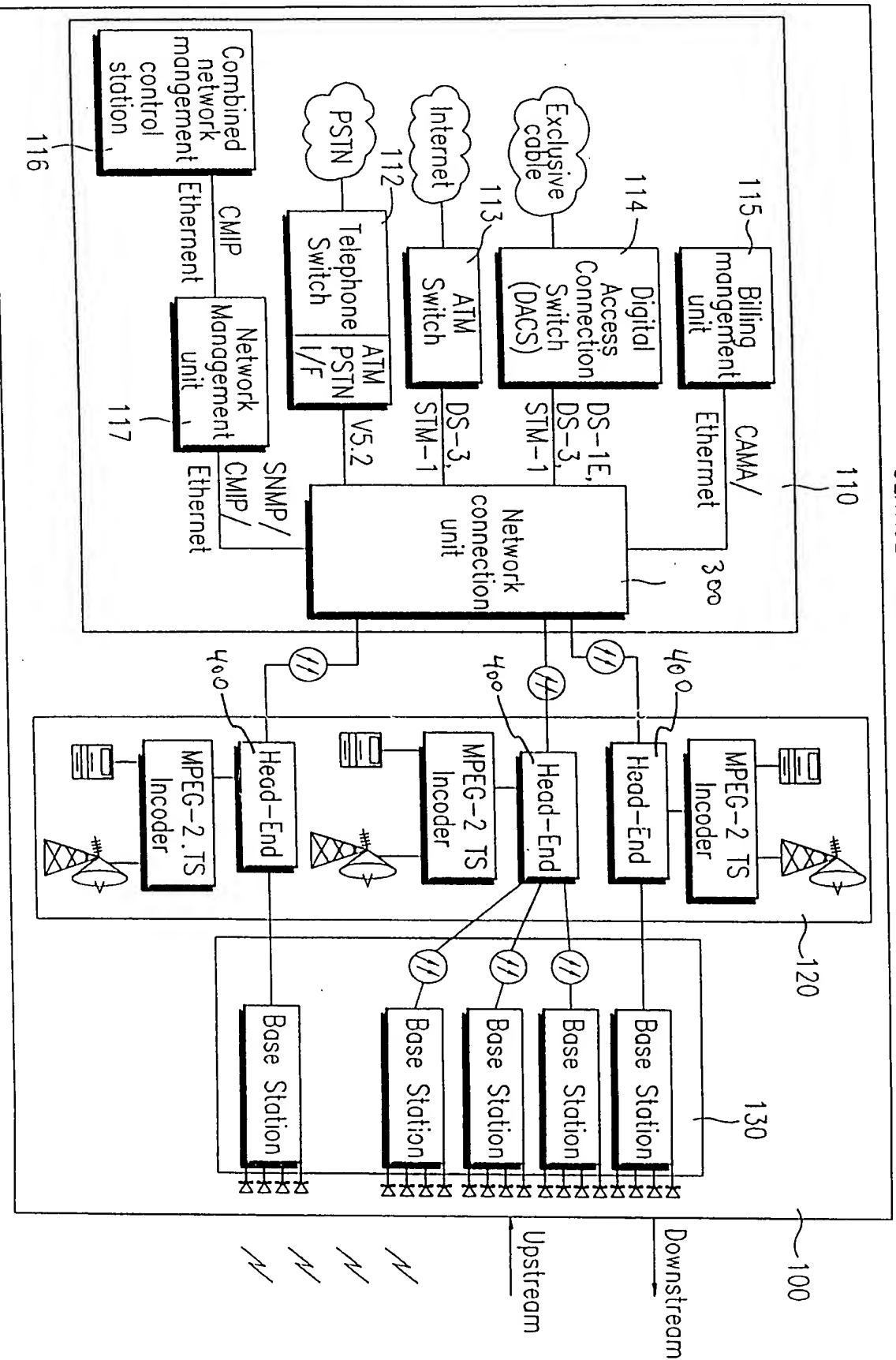


FIG. 1a is a block diagram of a Service Provider network architecture. The network 100 includes a core network 110, a head-end 120, and base stations 130. The core network 110 contains a billing management unit 115, a digital access switch 114, an ATM switch 113, a telephone switch 112, and a network connection unit. The head-end 120 contains MPEG-2 TS encoders. The base stations 130 are connected to the head-end 120 and the core network 110. The network 100 is connected to external networks (exclusive cable, Internet, PSTN) and management units (combined network management control station, network management unit) via various interfaces (CAMA/Ethernet, DS-1E, DS-3, STM-1, V5.2, ATM I/F, CMIP, Ethernet).

FIG. 1b

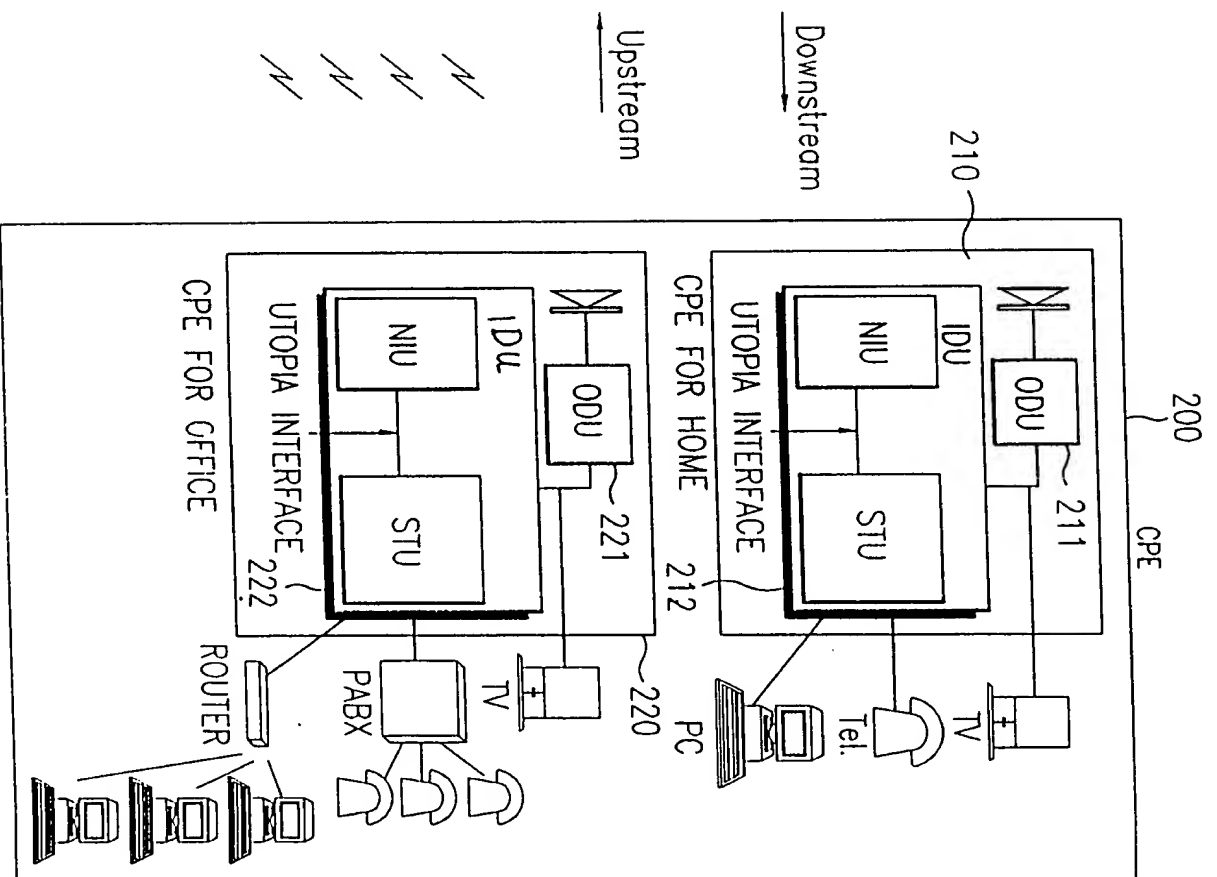


FIG. 1b is a block diagram of a CPE system for home and office environments, showing upstream and downstream communication paths.

FIG. 2

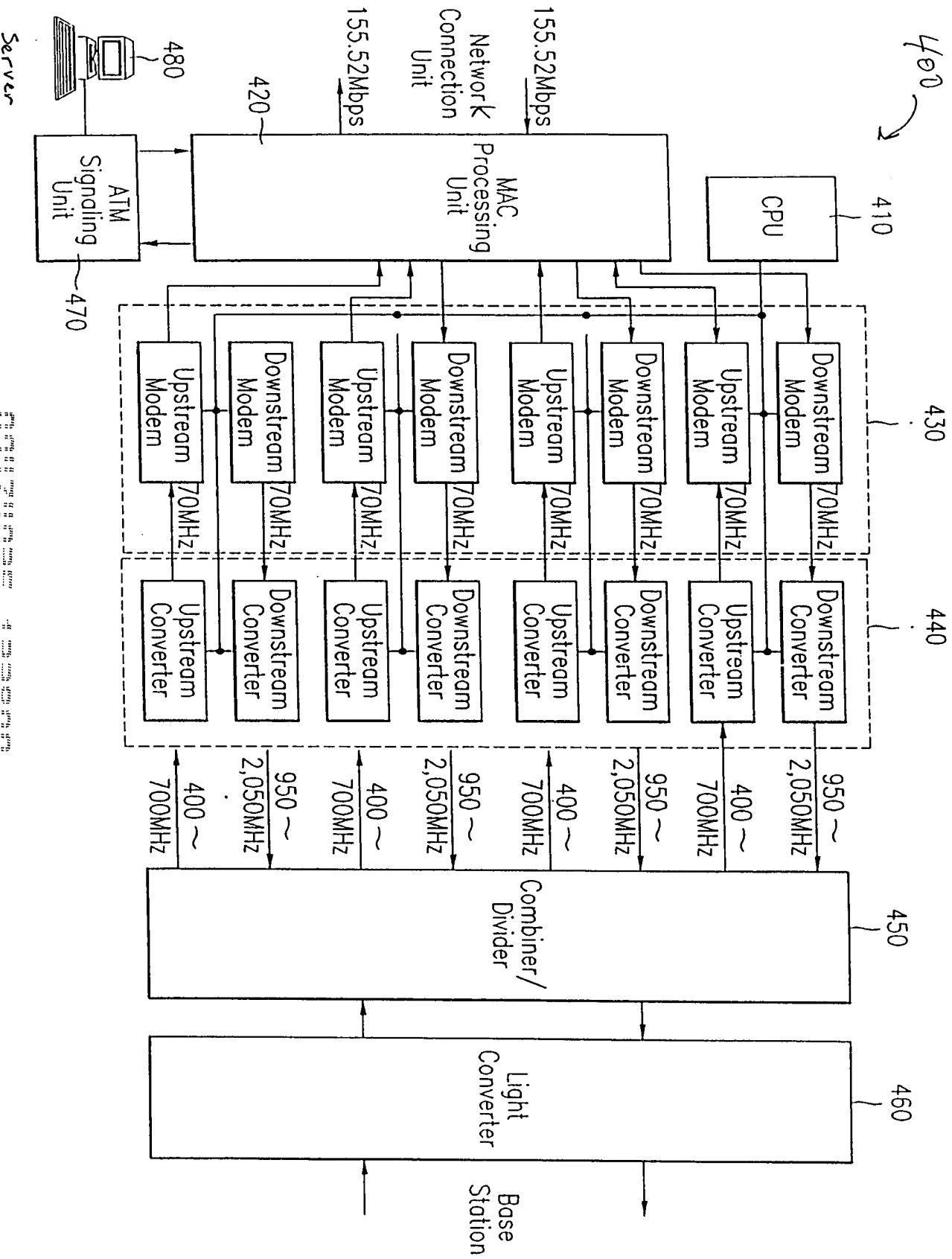


FIG.3

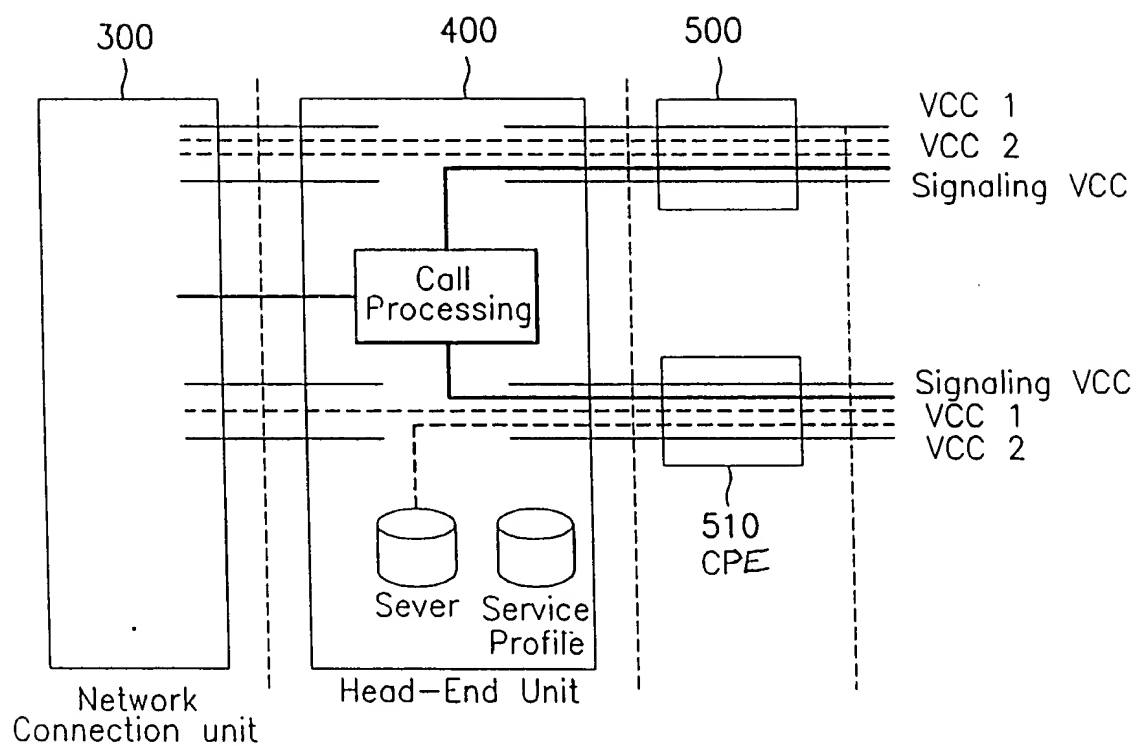


FIG. 4

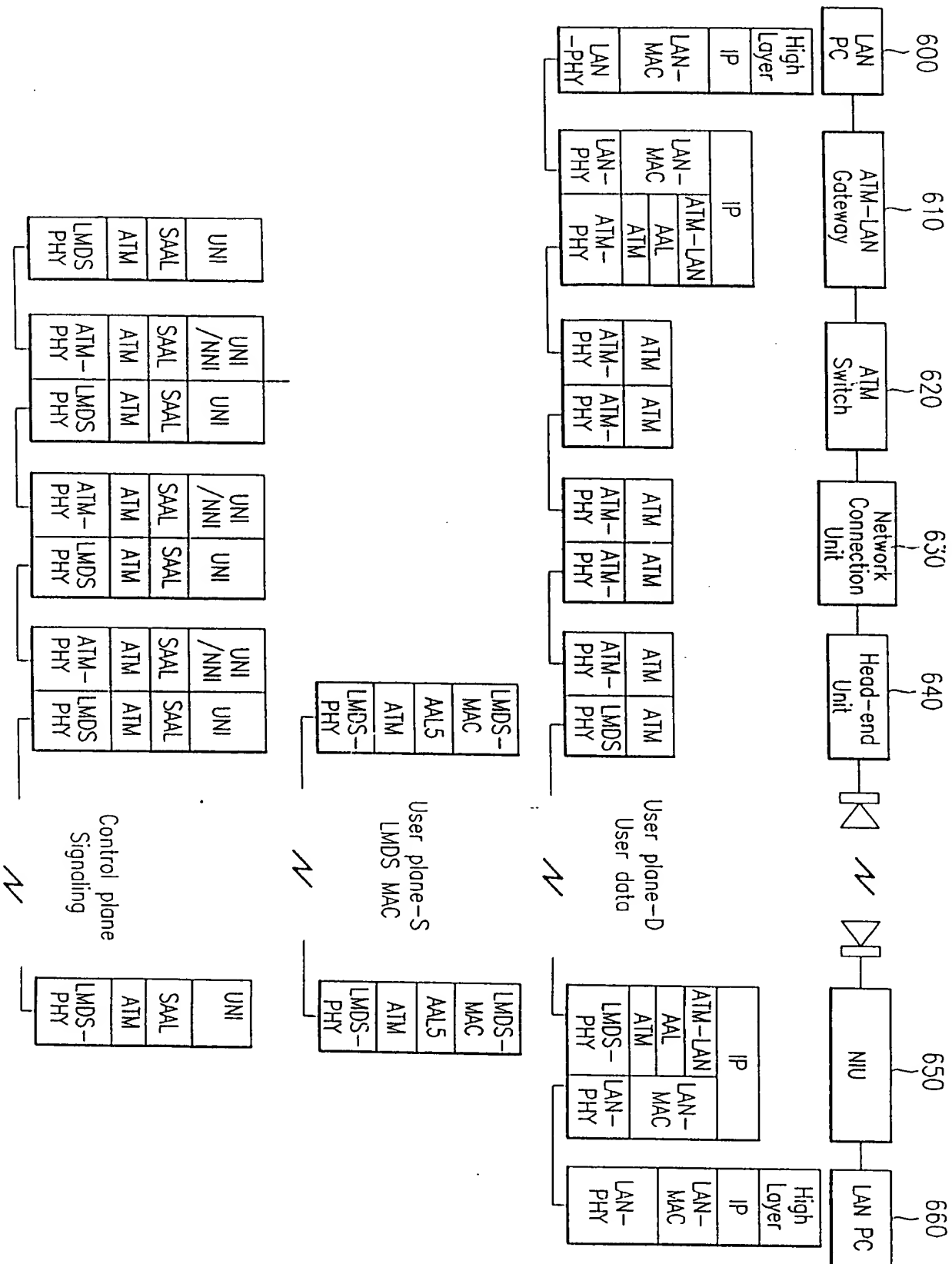


FIG. 5

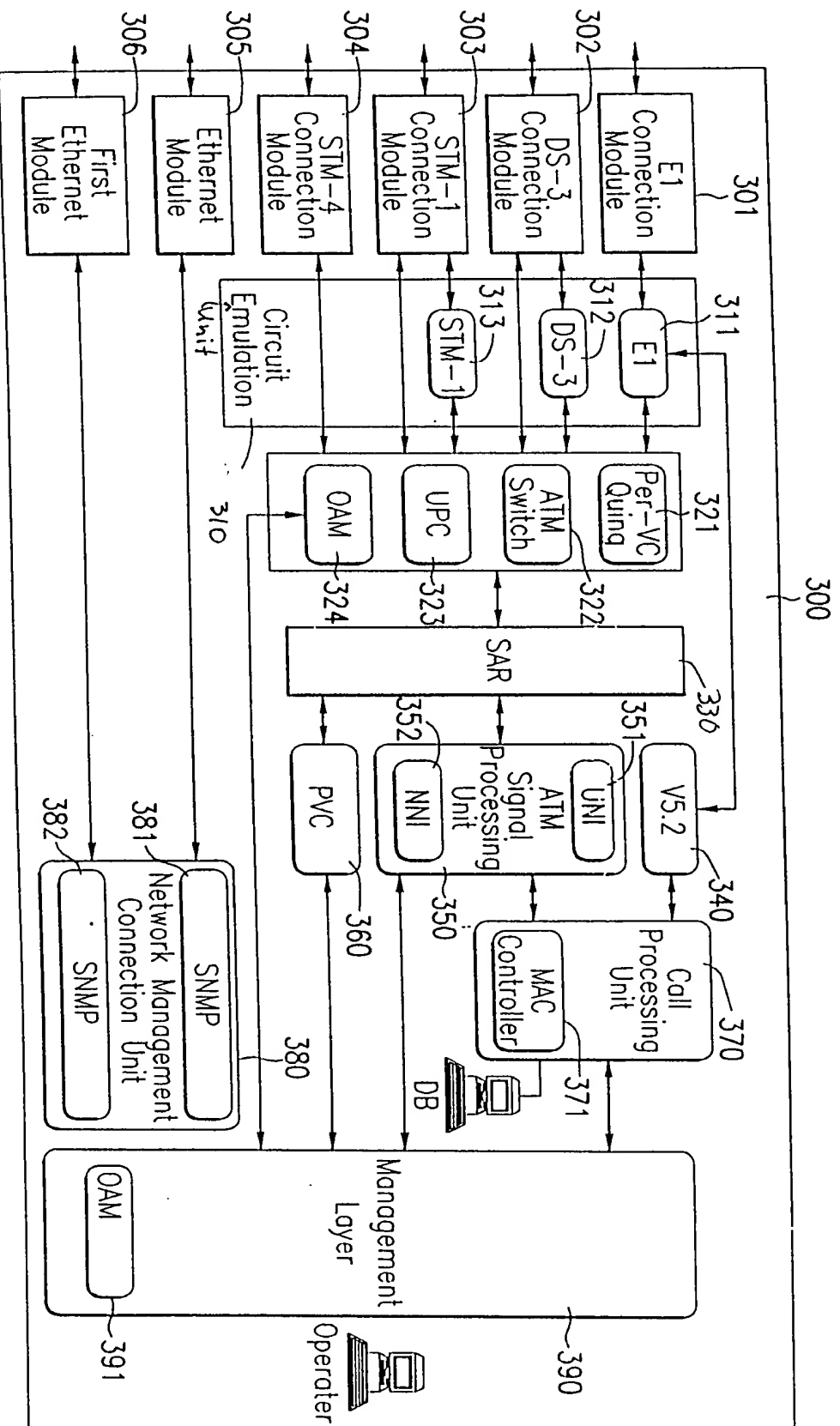
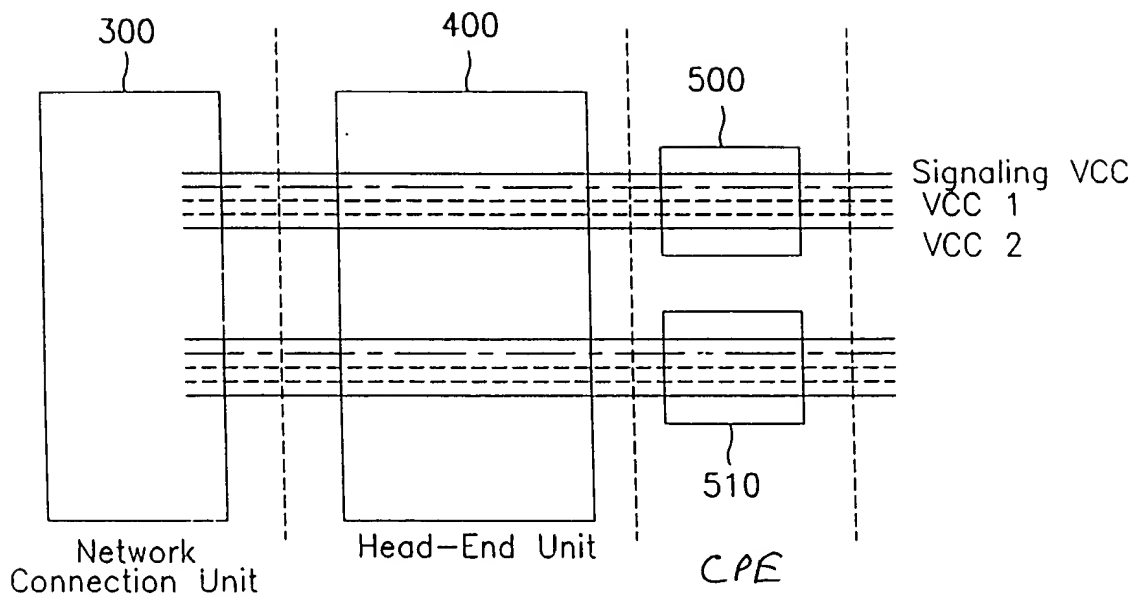


FIG.6



650 660

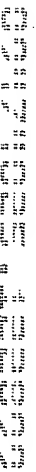




FIG. 8

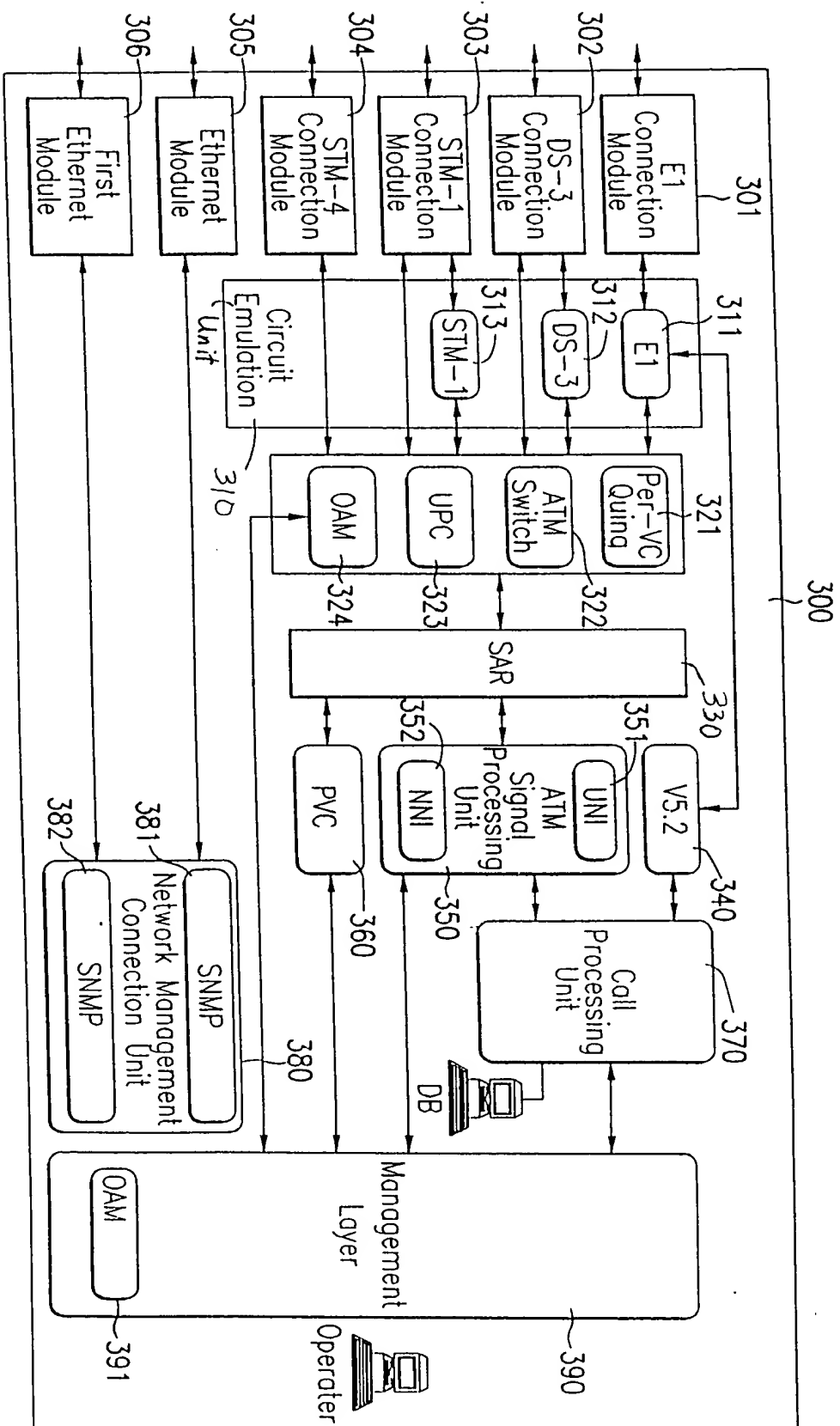


FIG. 9

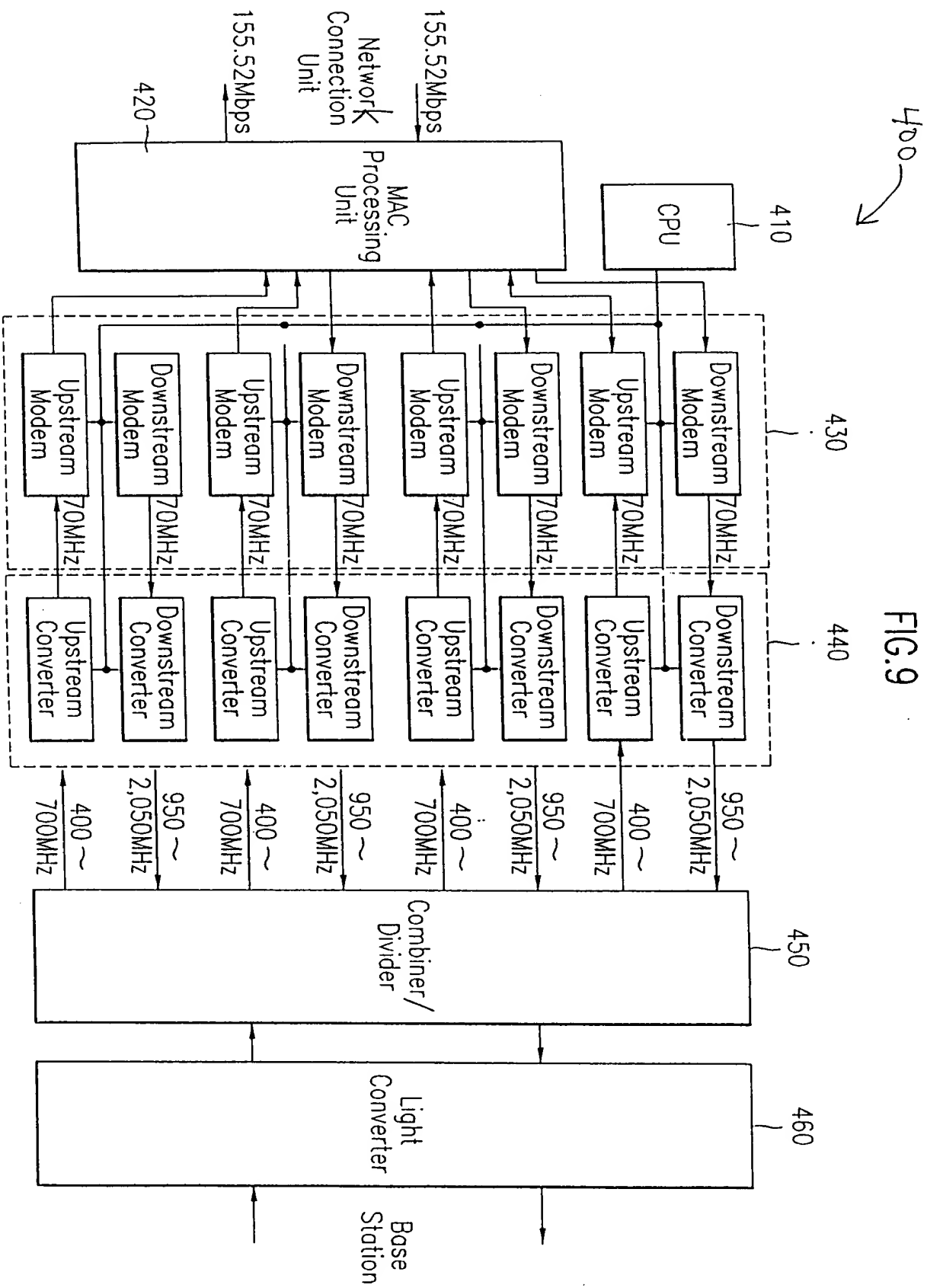


FIG.10

